(Currently Amended) An external pressure type hollow fiber membrane module comprising;

a hollow fiber membrane bundle formed of a plurality of hollow fiber membranes,

a cylindrical housing, and

a nozzle for allowing a fluid to enter into and exit therefrom the housing, which makes

the hollow fiber membranes <u>being</u> fixedly adhered to each other and to the inner wall of the housing at <del>beth</del> ends of the hollow fiber membrane bundle;

makes a hollow part opened in one side or both sides of adhesively-fixed adheringly-fixed ends of the hollow fiber membrane; and

has wherein the nozzle for allowing the fluid to enter and exit therefrom is installed on the a side face of the housing of at least one adhesively-fixed end at which the hollow part is opened;

wherein the membrane bundle has a cross-sectional area and a ratio PB/PA of membrane-occupying rates is 0.50 or more but 0.95 or less when each of PA and PB is defined as the membrane-occupying rates rate in a neighboring region (A) of having a cross-sectional area that extends from adjacent to the nozzle and toward the center of the cylinder, and PB is defined as the membrane-occupying rate in a non-neighboring region (B) of the nozzle which has a cross-sectional area that extends between the neighboring region (A) and a side face of the cylinder opposite to the side face of the cylinder where the nozzle is located among a membrane chargeable region in the inner side of an adhesively-fixed part, in at least one adhesively-fixed end of the opened hollow part in the vicinity of the nozzle.

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2. (Currently Amended) An external pressure type hollow fiber membrane module

comprising: a hollow fiber cartridge having a hollow fiber membrane bundle formed of a

plurality of

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hollow fiber membranes, of which both end parts are adhesively fixed and hollow parts in

at least one end of adhesively-fixed ends are opened; and

a cylindrical housing accommodating the cartridge and having a nozzle for allowing a

fluid to enter and exit therefrom installed on at least one side face, in which the nozzle installed

is fixed so as to be placed in the vicinity of the inner surface of an adhesively-fixed part in the

opened hollow parts side in the hollow fiber membrane cartridge;

wherein the membrane bundle has a cross-sectional area and a ratio PB/PA of membrane-

occupying rates is 0.50 or more but 0.95 or less when each of PA and PB is defined as the

membrane-occupying rate in a neighboring region (A) having a cross-sectional area that extends

from adjacent toof the nozzle and toward the center of the cylinder, and PB is defined as the

membrane-occupying rate in a non-neighboring region (B) of the nozzle which has a cross-

sectional area that extends between the neighboring region (A) and a side face of the cylinder

opposite to the side face of the cylinder where the nozzle is located among a membrane

chargeable region in the inner side of the adhesively-fixed part, in an adhesively-fixed end in the

vicinity of the nozzle.

3. (Original) The external pressure type hollow fiber membrane module according to

claim 1 or 2, wherein in the neighboring region (A) of the nozzle, among a membrane chargeable

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region in the inner side of an adhesively-fixed part, membrane occupying-rate PC is 0.5 times or

more but 2.0 times or less with reference to membrane-occupying rate PA in the neighboring

region (A), in every unit region (C) constituting the neighboring region (A).

4. (Original) The external pressure type hollow fiber membrane module according to

claim 1 or 2, wherein PA, PB1 and PB2 of the membrane-occupying rates have the relation of

PA ≥ PB1 ≥ PB2 and further PA is 0.40 or more but 0.60 or less and PB2 is 0.20 or more but less

than 0.40 when each of PB1 and PB2 is defined as a membrane-occupying rate in a first non-

neighboring region (B1) and a second non-neighboring region (B2) in the non-neighboring region

(B) of the nozzle among the membrane chargeable region in the inner side of an adhesively-fixed

part.

5. (Previously Presented) The external pressure type hollow fiber membrane module

according to claim 1, wherein the non-neighboring region (B) of the nozzle among the membrane

chargeable region in the inner side of an adhesively-fixed part includes at least one unit region in

which membrane-occupying rate PC in unit region (C) constituting the non-neighboring region

(B) is less than 0.5 times with reference to the membrane-occupying rate PB in the non-

neighboring region (B).

6. (Original) The external pressure type hollow fiber membrane module according to

claim 1 or 2, wherein a current plate is arranged in the vicinity of the nozzle of outer

circumference parts of the hollow fiber membrane bundle.

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7. (Original) The external pressure type hollow fiber membrane module according to

claim 6, wherein the current plate is cylindrical, accommodates the hollow fiber membrane

bundle inside of it, has a plurality of through-holes in a wall surface except the vicinity of the

nozzle, and has no through-hole in the vicinity of the nozzle.

8. (Original) The external pressure type hollow fiber membrane module according to

claim 1 or 2, wherein an adhesive bond part constituting the adhesively-fixed part is made of a

single layer of a high polymer material, and has the hardness of 50A to 70D in a range of

operating temperatures.

(Original) A method for manufacturing the external pressure type hollow fiber

membrane module according to claim 1 or 2 including: previously inserting a plurality of

columnar materials into an end of a hollow fiber membrane bundle at least in a side of making a

hollow part opened; accommodating the hollow fiber membrane bundle which keeps the state of

the insertion in a vessel for forming an adhesively-fixed part; injecting an adhesive bond into the

vessel and curing it; then cutting an end face of the hollow fiber membrane bundle to form the

adhesively-fixed part; and consequently making the columnar materials having a length of 0.3 to

0.9 times with reference to a thickness of the adhesively-fixed part exist at least in the

adhesively-fixed part of a neighboring region (A).

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10. (Original) A method for manufacturing the external pressure type hollow fiber

membrane module according to claim 1 including: accommodating a hollow fiber membrane

bundle in a housing case having a nozzle for allowing a fluid to enter and exit therefrom at least

on one side face; horizontally rotating the housing case in a state of keeping the nozzle directing

toward a lower direction than a horizontal direction; injecting an adhesive bond into the housing

case under the centrifugal force; and curing it to form an adhesively-fixed part.

11. (New) An external pressure type hollow fiber membrane module comprising:

a cylindrical housing;

a hollow fiber membrane bundle formed of a plurality of hollow fiber membranes located

inside of the cylindrical housing;

a nozzle for allowing a fluid to enter into and exit from the housing, located on a side

wall of the cylindrical housing

wherein the membrane bundle is separated in cross-section into two regions, a first region taking up at least one fourth of the cross-sectional area of the membrane bundle located between

a portion of the wall of the cylinder that extends about the nozzle to approximately the center of

the cylinder, and a second region that extends from the first region to the side of the wall of the

cylinder that is opposite to the side of the wall in which the nozzle is located, and

wherein a ratio PB/PA of membrane-occupying rates is 0.50 or more but 0.95 or less

when PA is defined as the membrane-occupying rate in the first region, and PB is defined as the

membrane-occupying rate in the second region.